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SUMMARY

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Finland

CORRUGATED BOARD AND ITS COMPONENTS

By Arne JUSELIUS, M.Sc.,
Head of the Board,
Department and Packaging Laboratory
of the Finnish Pulp and Paper Research Institute,
Helsinki, Finland

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Corrugated board and its components

by Arne Juselius, M. Sc., Head of the

Board Department and Packaging Laboratory of the
Finnish Pulp and Paper Research Institute,
Helsinki (Finland)

Summary

The consumption of paper and board, reported in weight units per capita and per annum, gives some idea of the development attained by the country concerned. Paper and board making involves the production of a large number of different qualities, in many cases intended for special purposes. In the packaging field particularly, the development of suitable materials has been vigorous during recent years.

Among packaging materials, corrugated board has found increasing use year by year, and its quality has steadily improved. It is a light and efficient packaging material, although its size means that it is hardly suitable for export. For preference, it should be manufactured in the country of consumption. The corrugating machine is relatively simple construction, and there are very few difficulties in operation and maintenance.

The surface layer of the liner board can be bleached or unbleached: normally it consists of high-quality sulphite or sulphate pulps. The body is made up from cheaper waste pulps, waste paper, semi-chemical pulps, and so on. Recently, the addition of up to 50 per cent of short-fibred hardwood pulps to the surface layer of the liner board has provided satisfactory results. Fluting board, which was at one time made of different types of cheap fibre material, such as waste paper, straw, waste pulp, bagasse, etc., is nowadays generally produced from semi-chemical hardwood pulps, which afford to the corrugated board a good degree of stiffness and high crush strength.

The glue utilised constitutes an extremely important component of corrugated board. It must stick quickly, and preferably possess wet strength. Further-

more, it must not introduce discoloration. Especially in a tropical climate, the demands made on corrugated board are high, and often entail treatment of it by paraffin or chemicals.

With the aid of packaging research, great strides have been made in the testing of corrugated board, and satisfactory results have been achieved.

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